EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1516	703/2.ccor.	US-PGPUB; USPAT	OR	ON	2008/01/04 08:50
L2	207	716/9.ccor.	US-PGPUB; USPAT	OR	ON	2008/01/04 08:50
L3	15294	finite adj element	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/04 08:50
L4	372	hourglass same deform$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/04 08:50
L5	9	L3 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/04 08:50
L6	64	L3 and hourglass	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/04 08:50
L7	12	L6 and node	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/04 08:50
L8	11	("6044210").URPN.	USPAT	OR	ON	2008/01/04 08:50
L9	585	345/420.cor.	US-PGPUB; USPAT	OR	ON	2008/01/04 08:50
L10	10	("5390127" | "6044210" | "6069634" | "6205366" | "6212486" | "6263252" | "6369815" | "6560570" | "6704693" | "6778916").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/04 08:50

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Search	Results
(((((((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform*) and coordinate) and solid) and vector) and node) and local) and direction) and force) and (hexahedral or pentahedral or axisymmetric or "plane strain")) and corner *[All Sources(- All Sciences -)]*	32
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Transient Solid Dynamics Simulations on the Sandia/Intel.. - Stephen Attaway (1997) (Correct) (5 citations)
to date) on problems involving millions of **finite elements**. On this machine we can simulate models
shell elements. Either the Flanagan-Belytschko **hourglass** control scheme or an assumed-strain **hourglass**
hourglass control scheme or an assumed-strain **hourglass** control scheme can be used to control element
ftp.cs.sandia.gov/pub/papers/bahendr/pronto.ps.gz

Comparative Study of Unstructured Meshes Made of Triangles.. - Anish Malanthara (1997) (Correct) (2 citations)
meshes of triangles for the purpose of **finite element** analysis. Delaunay triangulation has been the
under-integrating the elements and may result in **hourglass** modes [Cook et al 74]For 3-noded triangular
Gauss integration, it has been shown to exhibit **hourglass** instability. Plots of the deformed mesh confirm
fea1.ansys.com/pub/sowen/imr6/malanthara97.ps.gz

ALE Shock Calculations Using a Stabilized Serendipity Rezoning.. - Budge (1991) (Correct) (1 citation)
as if it was incompressible. Fully-integrated **finite elements**, in which the deformation field is
resulting from certain deformation modes (the **hourglass** modes) with the result that these modes are
of the deformation field so that the **hourglass** modes are no longer coupled to the deformation.
sherpa.sandia.gov/9231home/pdfpapers/APS9106.pdf

Unknown - Conclusions The Problem (Correct)
results of numerical simulations, using the **Finite Element** Method (FEM)We have identified that the
using DYNA3D and the Blatz-Ko rubber model show a **hourglass** phenomenon. We have eliminated the **hourglass**
a **hourglass** phenomenon. We have eliminated the **hourglass** modes by refining 141 the mesh, but when a
scholar.lib.vt.edu/theses/available/etd-02232001-114006/unrestricted/chapter6.pdf

Wilkinson T. and Hancock G. J., (1999), "Predictions of.. - Advances In Steel (Correct)
of Rotation Capacity of RHS Beams Using **Finite Element** Analysis"Advances in Steel Structures,
general purpose shell, reduced integration with **hourglass** control, using five degrees of freedom per
www.civil.usyd.edu.au/people/wilko/papers/ICASS99_Abaqus_Paper.pdf

RAHYD: An ICF Target Simulation Code Written in C++ (U) - Budge, Peery, M.K.Wong.. (Correct)
for ICF simulations. The RAHYD code uses a **finite element**, arbitrary Lagrangian-Eulerian (ALE)
with a variety of artificial viscosity and anti-**hourglass**ing formulations to control mesh keystoning.
are currently three artificial viscosity and four **hourglass** control options available to users. None of the
sherpa.sandia.gov/9231home/pdfpapers/NECDC94.pdf

RHALE: A MMALE Shock Physics Code for Arbitrary Meshes - Peery, Budge (Correct)
step. The Lagrangian step is solved using **finite elements** on an unstructured grid. RHALE incorporates
quadrilateral, spurious zero-energy modes (**hourglass** modes) exist and must be damped. We provide
Margolin and J.J. Pyun, A Method for Treating **Hourglass** Patterns,in Proceedings of the Fifth
sherpa.sandia.gov/9231home/pdfpapers/imacs92.pdf

Stress-Strain Response Of Polymers For Predicting The.. - Keith Knapp Ii (Correct)
large impact on the predictive capabilities of **finite element** models. Such improvements are necessary for
local true strain and local true stress using **hourglass** shaped test samples. True constant strain
local true strain and local true stress using **hourglass** shaped test samples. In this paper the results
windward.meche.rpi.edu/IFPintro/Papers/Keith2/ANTEC325.pdf

A Domain-Decomposition Message-Passing Approach to Transient.. - Christon (1997) (Correct)
on massively parallel computers. The **finite element** formulation for incompressible flow along
modifications such as single-point integration, **hourglass** stabilization, and a lumped mass matrix. Recent
balancing tensor diffusivity (BTD)and **hourglass** stabilization to damp the spurious zero-energy
www.cs.sandia.gov/~machris/papers/cmame-1996.ps.gz

Durability Assessment of an Arch Dam using Inverse.. - Fairbairn Goulart.. (Correct)
Arch Dam using Inverse Analysis with Neural Networks **and** High Performance Computing. Fairbairn Goulart
rongo.ce.jhu.edu/emd99/sessions/sessions/papers/fairba2.pdf

Non-Linear Finite Element Procedures for Supported Plates - Roberts, Mills (1999)   (Correct)
Non-Linear **Finite Element** Procedures for Supported Plates Charles J.
rongo.ce.jhu.edu/emd99/sessions/sessions/papers/roberts1.pdf

Rhale: A 3-D Mmale Code For Unstructured Grids - Peery, Budge, Wong, Trucano   (Correct)
expensive. Hydrodynamics codes based on **finite element**, Lagrangian formulations avoid these
are currently five artificial viscosity and four **hourglass** "viscosity" options available to users, plus an
"viscosity" options available to users, plus an **hourglass** "stiffening" option. None of the tensor
sherpa.sandia.gov/9231home/pdfpapers/asme93.pdf

A New Locking-Free Brick Element Formulation For.. - Reese Wriggers Reddy   (Correct)
H gradv H Dv H G A (v H 0. 5) 3 **Finite Element** Formulation 3.1 **Hourglass** Stabilization In
7700 Rondebosch, South Africa Key Words: **hourglass** stabilization, reduced integration, enhanced
to name only a few)But an explanation for the **hourglass** instabilitiy e#ect is still missing. Thus, one
sanlab.dlut.edu.cn/Proceeding/Wccm98/html/title/../../pdf/691.pdf

Some Finite Element Computational Strategies for.. - Catabriga, Dias..   (Correct)
Some **Finite Element** Computational Strategies for Large-Scale Flow
this cost. The reduced integration can yield **hourglass** modes. To control these spurious modes two
elements can yield spurious oscillations, or **hourglass** modes. It is necessary to control such
www.coc.ufrj.br/~lucia/papers/sbac98.ps.gz

Practical Issues of 2-D Parallel Finite Element Analysis - Hribar, Taylor (1994)   (Correct)
Practical.Issues Of 2-D Parallel **Finite Element** Analysis Michelle R. Hribar Valerie E.
Our test problems are plastic material with **hourglass** forces. The original WHAMS code supports up to
ece.nwu.edu/pub/CELERO/picpp94.ps.gz

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